Ham-Homebrew Digest   Sun, 20 Mar 94   Volume 94 : Issue   67

Today's Topics:
                Circuit simulation software for teaching
                 Packet on old Military Radios (2 msgs)
                     Parasitic oscillations, help!
                            QSKing an AMP
              Small correction to XFILTER.BAS posted yesterday
                       TX Amp for 20 mtrs QRP rigs.
                 Whats the loss across a BNC to PL259 ?

Date: 18 Mar 1994 15:32:58 -0500
From: ihnp4.ucsd.edu!usc!math.ohio-state.edu!magnus.acs.ohio-state.edu!mail-news-
gateway@network.ucsd.edu
Subject: Circuit simulation software for teaching
To: ham-homebrew@ucsd.edu

    I'm conducting a survey about the use of computer programs for digital
and analog circuit simulation in ee curricula. I'd like to know what
software is being used at other universities, what platforms it's run on,
what level (undergraduate/graduate) students are using it, and what problems
other ee departments have had making this kind of software available for
instructors and students.
    In particular, I'd like to know if there are fairly simple simulation
packages (say 20-50 gates or components) that will run under UNIX or X-windows,
or if there are DOS/Windows simulators that will run on a '286.
    Here at the Ohio State University we've experimented with several

approaches, but none of them has been entirely satisfactory. There are
some very sophisticated packages available for our UNIX/X-windows
workstations that are suitable for the graduate level courses and
research, but haven't proved satisfactory for the sophomore level courses.
They have a lot of features that the beginning students just don't need.
    There are simpler packages available for DOS, but we can't run them on
the UNIX workstations (there is a DOS/Windows emulation package, but it
emulates a 286, and the simulator requires a 386.) We are reluctant to
buy a lot of PCs, as the experience of other departments in the university
indicates that PC networks are harder to maintain than the present network
of UNIX workstations.
--
Steve Brown, N8HFI   sbbrown@magnus.acs.ohio-state.edu
Chief Engineer, The Ohio State University Radio Observatory ("Big Ear")

Date: Tue, 15 Mar 94 02:06:21 GMT
From: ihnp4.ucsd.edu!usc!cs.utexas.edu!utnut!nott!cunews!revcan!rubicon!pilate!
dave@network.ucsd.edu
Subject: Packet on old Military Radios
To: ham-homebrew@ucsd.edu

Has anybody out there ever connected a TNC to a PRC-77 (manpack) or
RT-524 (veh mounted) VHF Military radio. I have to do just this and
would really appreciate some advice. I understand the interface is
nu as Mil-Spec as one would think.

Thanks
DAve

--
Dave Mercer   VE3XMJ | If Voting could change the system
work: mercer@dgs.dnd.ca | it would be illegal
home: dave@pilate.rubicon.org |

-----BEGIN PGP PUBLIC KEY BLOCK-----
Version: 2.3a

mQCNAiw7jJkAAAEEALpAIvULlA/xvrzuR30NcLZE0HCHyGm5QR4ej8xM6k3AcH3T
Q3NkgV2FK5f8t/fBAhO1+ffa5K7F10B4hPqKkAASNlk1PIx9ty5oUgxAlZnfya4V
ScNIx0x2h2f3roRjiZLfNYM2zkm26sZhFQjVJxyNnluJq/xVb45/LyY+p9flAAUR
tCBEYXZpZCBNZXJjZXIgPG1lcmNlckBuY3MuZG5kLmNhPg==
=0azF
-----END PGP PUBLIC KEY BLOCK-----

Date: Sat, 19 Mar 94 18:39:00 -0800
From: ihnp4.ucsd.edu!swrinde!sgiblab!wetware!kaiwan.com!ledge!
bob.albert@network.ucsd.edu
Subject: Packet on old Military Radios
To: ham-homebrew@ucsd.edu

The only problem I can see about using old gear on packet is the
switching time. You will have to make sure the delay is long enough
to allow the rig to change over to transmit from receive. Also, it
may take a fair amount of current in the PTT line; if so you will have
to add a buffer. 73 DE K6DDX

Date: Sat, 19 Mar 1994 18:22:39 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!newsserver.jvnc.net!
raffles.technet.sg!ntuix!ntuvax.ntu.ac.sg!asirene@network.ucsd.edu
Subject: Parasitic oscillations, help!
To: ham-homebrew@ucsd.edu

Hi,

    I am building a Ramsey kit QAMP-20, TX Amp with 20 watts output on 20 meters
based on MOSFETS and I think I am experiencing
parasitic oscillations at VHF, especially once the MOSFET gets hot. Why does this
take place only when its hot? When its cool, say
the first 20 seconds of keying, it seems ok but once the MOSFET gets hot, there
goes the oscillations. Any ideas how I can fix
this? I am redesigning the PCB with my own layout, is this advisable? The original
board is single sided but I am not sure if their
layout is well considered. The oscillations further cause the T-R relay to go
beserk, understandably so. I am not too familiar with
MOSFET design so I don't know what to do exactly. Will appreciate any advice.

73,
Daniel

Date: Fri, 18 Mar 1994 20:02:00 GMT
From: ihnp4.ucsd.edu!agate!usenet.ins.cwru.edu!eff!news.kei.com!yeshua.marcam.com!
zip.eecs.umich.edu!panix!news.columbia.edu!psinntp!psinntp!psinntp!relay1!ecdcsvr!
klf@network.ucsd.edu
Subject: QSKing an AMP
To: ham-homebrew@ucsd.edu

Hi all, I hv a Heath SB1000 (Ameritron AL80A), that I wud like to add QSK to.

ALl the QSK kits are a bit expensive for my taste, but I was wondering. Is it
just the speed of the internal relay that keeps this thing from being QSK?
Afterreading Richard Measure's (SP?) article in QST, if I just replace the
internal
relay with a high speed vacum relay (Jennings) will I be able to run it in QSK
or are there other restraints. Tnks for any help you can give.

DE KA3PLS

Date: Sat, 19 Mar 1994 04:36:42 GMT
From: ihnp4.ucsd.edu!agate!usenet.ins.cwru.edu!nshore!seastar!jjw@network.ucsd.edu
Subject: Small correction to XFILTER.BAS posted yesterday
To: ham-homebrew@ucsd.edu

    Due to an un-corrected type in the original QST article, my
crystal filter design program will result in incorrect values in one
case. Change line 1020 to read as follows:

1020 DATA .7654,.8409,.5412,.8409,0,0,0,0,0,0,0

    and this should correct the problem. Many thanks for those
who pointed this out.
--
While (its_not_working())   John Welch, N9JZW
  mess_with_it();   jjw@seastar.org

Date: 20 Mar 94 04:08:17 GMT
From: dog.ee.lbl.gov!ihnp4.ucsd.edu!news.cerf.net!coyote.rain.org!coyote!
leigh@ucbvax.berkeley.edu
Subject: TX Amp for 20 mtrs QRP rigs.
To: ham-homebrew@ucsd.edu

asirene@ntuvax.ntu.ac.sg writes:

>Hi,

>   Need recommendation for a small TX amp kit which takes about 4 watts output
from my QRP rig and puts out 20-30 watts with
>built in T-R switching (preferably solid-state T-R) and runs off 12-13.8v DC
power supply. Must be small so I can fit it into my
>existing rig's casing. Should be something similar to the QAMP-20 from Ramsey
Hobby kits. BTW, this is for 20 meters. Tks.

>73,

>Daniel

Daniel, if you stumble upon a small CB ampflier, you might try using it
with your 20 meter QRP rig. Many of these amps are very broad banded, if
sometimes somwhat dirty. I know of a local ham who sometimes steps up
his 5 watt Ten Tec rig to about 50 watts on 40 meters, using a CB amp.

--Leigh/KM6JE.

Date: 18 Mar 1994 14:34:20 -0600
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!gatech!udel!news.sprintlink.net!
bga.com!bga.com!nobody@network.ucsd.edu
Subject: Whats the loss across a BNC to PL259 ?
To: ham-homebrew@ucsd.edu

Not a very scientific survey, but I have noticed that while
adapters with BNC male and UHF female are ok, the ones that
have BNC female and UHF male are create horrible SWR on my
power meter. Has anyone else seen this?

milton
--
Milton Miller KB5TKF miltonm@bga.com

Date: Fri, 18 Mar 94 17:58:48 GMT
From: mnemosyne.cs.du.edu!nyx10!tkell@uunet.uu.net
To: ham-homebrew@ucsd.edu

References <2m8nc6$m25@search01.news.aol.com>,
<mac.763913245@depot.cis.ksu.edu.cis.ksu.edu>, <763936883snz@gqrp.demon.co.uk>
Subject : Re: QRP Designs

George Dobbs - I got your address and tried to send you mail but the Postmaster
says that it cannot find your address. Do you know your numeric address??
Could you please let me know so I can email to you?

Thank you

Ted Kell@lark.jsc.nasa.gov   (kell@128.157.53.88)
KC5CUW

End of Ham-Homebrew Digest V94 #67
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